PTO-1449 (Modified)	ATTY. DOCKET NO. 57941.000062	SERIAL NUMBER 10/716,595
U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	APPLICANT(S) MICHAEL FARMWALD ET AL.	
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EXAMINER INITIALS		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE
TNT	1.	4,330,852	May 18, 1982	Redwine et al.	365	221	—
	2.	4,703,418	Oct. 27, 1987	James	700	32	—
	3.	4,726,021	Feb. 16, 1988	Horiguchi et al.	714	723	—
	4.	4,785,394	Nov. 15, 1988	Fischer	700	114	—
TNT	5.	4,870,562	Sept. 26, 1989	Kimoto et al.	711	167	—

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES/NO	
TNT	6.	S56-82961	July 7, 1981	Japan	—	—	YES	
	7.	S57-14922	Jan. 26, 1982	Japan	—	—	YES	
	8.	Sho 60-80193	May 8, 1983	Japan	—	—	YES	
	9.	Sho 60-55459	Mar. 30, 1985	Japan	—	—	YES	
	10.	S61-72350	April 14, 1986	Japan	—	—	YES	
	11.	S63-142445	June 14, 1988	Japan	—	—	YES	
	12.	B63-46864	Sept. 19, 1988	Japan	—	—	YES	
TNT	13.	S64-29951	Jan. 31, 1989	Japan	—	—	YES	

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TNT	14.	Watanabe, T.; "Session XIX: High Density SRAMS"; IEEE International Solid State Circuits Conference pp. 266-267 (1987)
	15.	Ohno, C.; "Self-Timed RAM: STRAM"; Fujitsu Sci. TechJ., 24, 4, pp 293-300 (Dec. 1988)
	16.	"Fast Packet Bus for Microprocessor Systems with Caches", IBM Technical Disclosure Bulletin, pp.279-282 (Jan 1989)
	17.	Gustavson, D. "Scalable Coherent Interface"; Invited Paper, COMPCON Spring '89, San Francisco, CA; IEEE, pp. 536-538 (Feb 27-Mar 3, 1989)
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TNT	19.	4,845,670	Jul. 4, 1989	Nishimoto et al.	365	78	—
TNT	20.	4,509,142	Apr. 2, 1985	Childers	711	169	—
TNT	21.	4,685,088	Aug. 4, 1987	Ianucci	365	189.02	—

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TNT	22.	0 246 767	April 28, 1987	EPO	—	—	—
TNT	23.	0 334 552	Mar. 16, 1989	EPO	—		—
TNT	24.	0 276 871	Jan. 29, 1988	EPO	—	—	—

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TNT	25.	European Search Report for EPO Patent Application No. 00 101 1832
	26.	European Search Report for EPO Patent Application No. 89 30 2613
	27.	Z. Amitai, "New System Architectures for DRAM Control and Error Correction", Monolithic Memories Inc., Electro/87 and Mini/Mico Northeast: Focusing on the OEM Conference Record, pp. 1132, 4/31-3, (April 1987)
	28.	N. Siddique, "100-MHz DRAM Controller Sparks Multiprocessor Designs", Electronic Design, pp. 138-141, (Sept 1986)
	29.	H. Kuriyama et al., "A 4-Mbit CMOS SRAM WITH 8-NS SERIAL ACCESS TIME", IEEE Symposium On VLSI Circuits Digest Of Technical Papers, pp. 51-52, (June 1990)
	30.	A. Fielder et al., "A 3 NS 1K X 4 STATIC SELF-TIMED GaAs RAM", IEEE Gallium Arsenide Integrated Circuit Symposium Technical Digest, pp. 67-70, (Nov. 1988)
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TNT	32.	4,649,511	03/10/97	Gdula	711	106	—
	33.	4,860,198	08/22/89	Takenaka	711	127	—
	34.	3,969,706	07/13/76	Proebsting et al.	365	189.02	—
	35.	4,766,536	08/23/88	Wilson, Jr. et al.	710	121	—
	36.	4,998,262	03/05/91	Wiggers	375	376	—
	37.	4,757,473	07/12/88	Kurihara et al.	365	189.12	—
	38.	4,792,926	12/20/88	Roberts	365	189.02	—
	39.	4,811,202	03/07/89	Schabowski	710	127	—
	40.	5,034,917	07/23/91	Bland et al.	711	167	—
	41.	4,845,664	07/04/89	Aichelmann, Jr. et al.	711	405	—
	42.	5,140,688	08/18/92	White et al.	710	600	—
	43.	4,747,079	05/24/88	Yamaguchi	365	189.08	—
	44.	5,301,278	04/05/94	Bowater et al.	711	5	—
	45.	5,051,889	09/24/91	Fung et al.	711	157	—
TNT	46.	5,153,856	10/06/92	Takahashi	365	233	—

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TNT	50.	4,445,204	04/24/84	Nishiguchi	365	194	—
	51.	4,821,226	04/11/89	Christopher et al.	365	230.03	—
	52.	4,882,712	11/21/89	Ohno et. al.	365	206	—
	53.	4,951,251	08/21/90	Yamaguchi et al.	365	189.02	—
TNT	54.	5,107,465	04/21/92	Fung et al.	365	230.08	—

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	56.	D.T. Wong et. al., "An 11-ns 8Kx18 CMOS Static RAM with 0.5-μm Devices", IEEE Journal of Solid State Circuits, vol. 23 No. 5, pp. 1095-1103 (Oct. 1988)
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	58.	D. Jones, "Synchronous static ram", Electronics and Wireless World, vol.93, no.1622, pp. 1243-4 (Dec. 87)
	59.	F. Miller et. al., "HIGH FREQUENCY SYSTEM OPERATION USING SYNCHRONOUS SRAMS", Midcon/87 Conference Record, pp. 430-432 Chicago, IL, USA; 15-17 Sept. 1987
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	66.	H. L. Kalter et al. "A 50-ns 16Mb DRAM with a 10-ns Data Rate and On-Chip ECC" IEEE Journal of Solid State Circuits, vol. 25 No. 5, pp. 1118-1128 (Oct 1990)
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TNT	68.	5,206,833	04/27/93	Lee	365	233	
	69.	4,953,128	08/28/90	Kawai et al.	365	194	
	70.	4,970,418	11/13/90	Masterson	327	141	
	71.	4,916,670	04/10/90	Suzuki et al.	365	233	
	72.	4,570,220	02/11/86	Tetrick et al.	710	126	
	73.	4,099,231	07/01/78	Kotok et al.	711	168	
	74.	5,301,278	04/05/94	Bowater et al.	711	5	
	75.	5,140,688	08/18/92	White et al.	710	600	
	76.	5,018,111	05/21/91	Madland	365	233	
	77.	4,734,880	03/29/88	Collins	711	105	
	78.	4,183,095	01/08/80	Ward	365	189.02	
	79.	4,975,872	12/04/90	Zaiki	365	49	
	80.	5,016,226	05/14/91	Hiwada et al.	365	233	
	81.	5,210,715	05/11/93	Houston	365	194	
	82.	4,928,265	05/22/90	Higuchi et al.	365	189.01	
	83.	4,953,130	08/28/90	Houston	365	203	
	84.	5,251,309	10/05/93	Kinoshita et al.	711	167	
	85.	4,630,193	Dec. 16, 1986	Kris	713	502	
	86.	4,710,904	Dec. 1, 1987	Suzuki	365	226	
TNT	87.	4,739,502	Apr. 19, 1988	Nozaki	365	233	

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TNT	88.	4,205,373	May 27, 1980	Shah et al.	710	128	—
	89.	4,905,201	Feb. 27, 1990	Ohira et al.	365	233.03	—
	90.	3,691,534	09/12/72	Veradi, et. al	365	78	—
	91.	3,771,145	11/06/73	Wiener	365	240	—
	92.	4,536,795	08/20/85	Hirota, et. al	348	714	—
	93.	4,629,909	12/16/86	Cameron	327	211	—
	94.	4,631,659	12/23/86	Hayne, et. al	711	167	—
	95.	4,858,113	08/15/89	Saccardi	710	132	—
	96.	4,499,536	02/12/85	Gemma et al.	711	167	—
TNT	97.	4,648,102	03/03/87	Riso, et. al	375	356	—

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TNT	98.	EP 0424774	05/02/91	EPO	—	—	—
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TNT	100.	European Search Report for EPO Patent Application No. 00 10 0018
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TNT	104.	4,663,735	05/05/87	Novak, et. al	345	533	
	105.	4,825,287	04/25/89	Baji, et. al	348	720	
	106.	4,845,677	07/04/89	Chappell, et. al	365	189.02	
	107.	4,873,671	10/10/89	Kowshik, et. al	365	189.12	
	108.	4,876,670	10/24/89	Nakabayashi, et. al	365	194	
TNT	109.	4,901,036	02/13/90	Herold, et. al	331	25	

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TNT	110.	EP 0218523	05/30/89	EPO				
	111.	JP-A-1-236494	09/21/89	JP			YES	
	112.	Sho 62-71428	03/27/87	JP			YES	
TNT	113.	EP 0282735	09/21/88	EPO				

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TNT	114.	Horowitz et al., "MIPS-X: A 20-MIPS Peak 32-Bit Microprocessor with ON-Chip Cache", IEEE J. Solid State Circuits, vol. SC-22, No. 5, pp. 790-798 (Oct. 1987)
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	116.	1989 GaAs IC Data Book & Designers Guide, Gigabit Logic Inc. (Aug 1989)
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	118.	Fagan, J.L., "A 16-kbit Nonvolatile Charge Addressed Memory," IEEE Journal of Solid-State Circuits, Vol. SC-11, No. 5, pp. 631-636 (Oct. 1976)
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	122.	5,099,481	04/24/92	Miller	371	22.1	
	123.	5,016,226	05/14/91	Hiwada, et. al	365	233	
	124.	5,023,835	06/11/91	Akimoto, et. al	365	155	
	125.	5,036,495	07/30/91	Busch, et. al	365	233	
	126.	5,111,486	05/05/92	Oliboni, et. al	375	376	
	127.	5,123,100	06/16/92	Hisada, et. al	713	401	
	128.	5,276,846	01/04/94	Aichelmann Jr., et. al	711	165	
	129.	5,361,277	11/01/94	Grover	375	356	
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	140.	Ishimoto, S. et al., "A 256K Dual Port Memory," ISSCC Digest of Technical Papers, p. 38-39 (Feb. 1985)
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	152.	5,179,667	01/12/1993	Iyer	711	167	
	153.	5,029,124	07/02/1991	Leahy et al.	710	105	
	154.	4,878,166	10/31/1989	Johnson et al.	710	127	
	155.	4,851,990	07/25/1989	Johnson et al.	710	100	
	156.	4,839,801	06/13/1989	Nicely et al.	710	35	
	157.	3,950,735	04/13/1976	Patel	710	50	
	158.	4,933,953	Jun. 12, 1990	Yagi	375	149	
	159.	5,133,064	Jul. 21, 1992	Hotta et al	709	400	
	160.	5,184,027	Feb. 2, 1993	Masuda et al.	327	049	
	161.	4,761,567	Aug. 2, 1988	Walters, Jr. et al.	327	295	
TNT	162.	5,101,117	Mar. 31, 1992	Johnson et al.	327	149	

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES/NO	
TNT	163.	SHO 58-192154	Nov. 9, 1983	Japan			NO	
	164.	SHO 63-34795	Feb. 15, 1988	Japan			NO	
	165.	SHO 61-107453	May 26, 1986	Japan			NO	
	166.	SHO 63-91766	April 22, 1988	Japan			YES	
	167.	SHO 62-16289	Jan. 24, 1987	Japan			NO	
	168.	SHO 61-160556	Oct. 4, 1986	Japan			NO	
TNT	169.	JP 1284132	Nov 15, 1989	Japan			YES	

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PTO-1449 (Modified) U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. 57941.000062	SERIAL NUMBER 10/716,595
	APPLICANT(S) MICHAEL FARMWALD ET AL.	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT	FILING DATE November 20, 2003	GROUP ART UNIT Unassigned

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EXAMINER INITIALS		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE
TNT	170.	4,528,646	Jul. 9, 1985	Ochii et al.	365	203	
	171.	4,922,141	May 1, 1990	Lofgren et al.	327	244	
	172.	4,253,147	Feb. 24, 1981	MacDougall et al.	711	169	
	173.	4,975,877	Dec. 4, 1990	Bell	365	189.01	
	174.	4,712,194	Dec. 8, 1987	Yamaguchi et al.	365	203	
TNT	175.	6,345,321	Feb. 5, 2002	Litaize et al.	710	23	

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES/NO	
TNT	176.	EP 0 329 418 A2	Aug 23, 1989	EPO				
	177.	JP 1043894	Feb. 16, 1989	Japan			YES	
	178.	sho 58-31637A	Feb 24 , 1983	Japan				
	179.	sho 59-165285A	Mar. 11, 1983	Japan				
	180.	sho 60-261095A	June 6, 1984	Japan				
	181.	sho 63-300310	Dec. 7, 1988	Japan				
	182.	hei 2-8950	Jan 12, 1990	Japan				
TNT	183.	sho 58-184626A	Oct 28, 1983	Japan				

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U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	APPLICANT(S) MICHAEL FARMWALD ET AL.	
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EXAMINER INITIALS		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE
TNT	184.	5,287,532	Feb. 15, 1994	Hunt	712	10	
	185.	5,157,776	Oct. 20, 1992	Foster	711	131	
	186.	5,023,838	Jun. 11, 1991	Herbert	365	189.08	
	187.	4,961,171	Oct. 2, 1990	Pinkham et al.	365	230.05	
	188.	4,930,065	May 22, 1990	McLagan et al.	710	50	
	189.	4,641,276	Feb. 3, 1987	Dunki-Jacobs	710	71	
	190.	4,639,890	Jan. 27, 1987	Heilveil et al.	345	559	
	191.	4,468,733	Aug. 28, 1984	Oka et al.	710	312	
	192.	4,426,685	Jan. 17, 1984	Lorentzen	713	401	
	193.	4,408,272	Oct. 4, 1983	Walters	710	61	
	194.	4,257,097	Mar. 17, 1981	Moran	711	119	
	195.	3,846,763	Nov. 5, 1974	Riikonen	710	40	
TNT	196.	H696	Oct. 3, 1989	Davidson	364	900	

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TNT	197.	Motorola MC88200 Cache/Memory Management Unit User's Manual, Motorola Inc. 1989
	198.	B. Ramakrishna et al., "The Cydra 5 Departmental Supercomputer Design Philosophies, Decisions, and Trade-offs" Computer IEEE, Jan 1989 pp. 12-35
	199.	Ralston, E.D. Reilly, "Encyclopedia of Computer Science", Chapman & Hall, 1983, page 1471
TNT	200.	S.A. Ward, R.H. Halstead, "Computation Structures", The MIT Press, McGraw-Hill Book Company, 1990, pages, 174-175, 93, 250-251, and 258-259

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EXAMINER INITIALS		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE
TNT	201.	5,847,997	Dec. 8, 1998	Harada et al.	365	185.33	
	202.	5,148,523	Sep. 15, 1992	Harlin et al.	345	149	
	203.	5,142,637	Aug. 25, 1992	Harlin et al.	711	106	
	204.	5,109,498	Apr. 28, 1992	Kamiya et al.	711	123	
	205.	4,954,987	Sep. 4, 1990	Auvinen et al.	365	189.02	
TNT	206.	4,937,734	Jun 26, 1990	Bechtolsheim	711	202	

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TNT	207.	61028248	Feb. 7, 1986	Japan				

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TNT	208.	Betty Prince, "Semiconductor Memories", Second Edition, John Wiley & Sons, 1991, pages 251, 310, 314, 200-201, 467
	209.	"Intel MCS-4 Micro Computer Set", Intel Corporation, Santa Clara, CA,1972, (pp.1-12)
	210.	"MIPS R3010 coprocessor", IEEE Micro June 1988, (pp.54-62)
	211.	"Intel MCS-4 Micro Computer Set Users Manual", Intel Corporation, Santa Clara, CA, March 1972, (pp.1-26, and 60-68)
	212.	"Bipolar/MOS Memories Data Book", Advanced Micro Devices, Sunnyvale, CA, 1986 (pp. 4-143 to 4-163)
TNT	213.	"Memories 1986-87 Databook", Fujitsu Inc., 1986 (pp. 1-102 to 1-128)

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EXAMINER INITIALS		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE
TNT	214.	4,920,483	Apr. 24, 1990	Pogue et al.	711	219	—
	215.	4,912,630	Mar. 27, 1990	Cochcroft Jr.	711	211	—
	216.	4,807,189	Feb. 21, 1989	Pinkham et al.	365	189.05	—
	217.	4,799,199	Jan. 17, 1989	Scales, III et al.	365	230.08	—
	218.	4,788,667	Nov. 29, 1988	Nakano et al.	365	193	—
	219.	4,680,738	Jul. 14, 1987	Tam	365	239	—
	220.	4,675,850	Jun. 23, 1987	Kumanoya et al.	365	230.01	—
	221.	4,519,034	May 21, 1985	Smith et al.	710	51	—
	222.	4,315,308	Feb. 9, 1982	Jackson	710	33	—
	223.	4,247,817	Jan. 27, 1981	Heller	327	63	—
	224.	4,092,665	May 30, 1978	Saran	341	63	—
	225.	4,084,154	Apr. 11, 1978	Panigraphi	365	222	—
TNT	226.	3,821,715	Jun. 28, 1974	Hoff, Jr. et al.	711	1	—

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	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES/NO	
TNT	120553/1987	Jun. 1. 1987	Japan	—	—	—	
	0 189 576	Aug. 6, 1986	EPO	—	—	—	
	0 187 289	Jul. 16, 1986	EPO	—	—	—	
TNT	0 166 192	Jan. 2, 1986	EPO	—	—	—	

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U.S. PATENT DOCUMENTS

EXAMINER INITIALS		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE
TNT	227.	5,598,554	Jan. 28, 1997	Litaize et al.	716	1	
|	228.	4,644,469	Feb. 17, 1987	Sumi	711	211	
|	229.	4,747,081	May 24, 1988	Heilveil et al.	365	219	
|	230.	6,112,287	Aug. 29, 2000	Litaize et al.	712	11	
TNT	231.	4,782,439	Nov. 1, 1988	Borkar et al.	710	23	

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		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES/NO	
TNT	232.	0 126 976	Dec. 5, 1984	EPO				
|	233.	135684/1984	Aug. 3, 1984	Japan				
|	234.	82/02615	Aug. 5, 1982	PCT				
TNT	235.	33471/1982	Feb. 23, 1982	Japan				

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TNT	H. J. Mattausch, et al., "A Memory-Based High-Speed Digital Delay Line With a Large Adjustable Length", IEEE Journal of Solid State Circuits, vol. 23, no. 1, Feb. 1988 (pp. 105-110)
|	"MIPS Chip Set Implements Full ECL CPU" Microprocessor Report, MicroDesign Resources Inc., Vol. 3: No. 12; Dec. 1989
TNT	"R6000 System Bus & R6020 SBC Specification" MIPS Computer Systems Inc., Sunnyvale, CA, Aug 22, 1989

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TNT	236.	R.A. Volz et al., "POSITION PAPER ON GLOBAL CLOCK FOR THE FUTUREBUS +", SCI – 1989 – doc-59, pp. 1-9
TNT	237.	"ECL bus controller hits 266 Mbytes/s" Microprocessor Report, MicroDesign Resources Inc., Vol. 4: No. 1; Pg. 12, Jan. 24, 1990
	238.	S. Muchmore, "Designing Computer Systems Based on Multibus II", New Electronics, Vol. 20, No. 16, p. 31-32, Aug. 11, 1987.
	239.	"Accordion Start-Stop Sequencer for a Variable Cycle Storage Controller", IBM Technical Disclosure Bulletin, pp. 2074-2075, (a delphion.com reprint on two sheets), Oct. 1986.
	240.	"Motorola 68030 Cache Organization", posting to Internet Newsgroup net.arch by aglew@ccvaxa.UUCP, (a google.com reprint on two sheets), Sep. 29, 1986.
	241.	M. Bazes et al., "A Programmable NMOS DRAM Controller for Microcomputer Systems with Dual-Port Memory and Error Checking And Correction", IEEE Journal of Solid State Circuits, Vol. 18, No. 2, pp. 164-172, Apr. 1983.
	242.	R.W. Callahan et al., "Burst-Mode PIO Bus Control", IBM Technical Disclosure Bulletin, Vol. 21, No. 4, pp. 1417-1419, (a delphion.com reprint on two sheets), Sep. 1978.
	243.	Stanley D. Rosenbaum et al., "A 16 384-Bit High-Density CCD Memory", IEEE Journal of Solid State Circuits, Vol. SC-11, No. 1, pp. 33-39, Feb. 1976.
	244.	Hopper et al., "Multiple vs. Wide Shared Bus Multiprocessors", Proceedings of the 16th Annual International Symposium on Computer Architecture, Jerusalem, Israel, June 1989, IEEE Computer Society Press, 1989.
	245.	Gerninger et al., "A Survey of Commercial Parallel Processors", Computer Architecture News, Vol. 16, no. 4, Sept. 1988
TNT	246.	Dubois et al., "Effects of Cache Coherency in Mulitprocessors", IEEE Transaction in Computers, Vol. C31, No. 11, pgs. 1083-1099, November 1982.

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